

What is claimed is:

1. An expression shoe comprising:

a pedal;

a base;

bearing means rotatably connecting said pedal to said base;

sensor means for producing a sensor signal corresponding to a rotational position of said pedal with respect to said base;

said sensor means comprising a hall-effect sensor mounted to one of said pedal and said base and magnetic field producing means mounted to the other of said pedal and said base for producing a linear output signal in response to movement of said pedal relative to said base.

2. The expression shoe of claim 1, wherein said bearing means includes adjustment means for adjusting resistance to rotational movement of said pedal with respect to said base.

3. The expression shoe of claim 1, wherein said base comprises an extrusion.

4. The expression shoe of claim 3 wherein, said base includes a generally inverted U-shaped channel and a pair of feet extending oppositely outwardly of said channel for accommodating two or more different mounting configurations.

5. The expression shoe of claim 1 wherein, said magnetic field producing means comprises a pair of spaced apart permanent magnets.

6. A base for an expression shoe, said base comprising:

a U-shaped portion having an open end, and two feet extending oppositely outwardly of sides of said channel at said open end.

7. The base of claim 6 wherein, said U-shaped portion and said feet are integrally formed as a single extrusion.

8. A method of expression control for use with an organ, said method comprising:

providing an expression shoe comprising a base and a pedal mounted for rotational movement relative to said base;

producing a linearly varying signal in response to rotation of said pedal relative to said base.

9. The method of claim 8 wherein, the step of producing comprises rotating a magnetic field producing means relative to a Hall effect sensor in response to rotation of said pedal relative to said base.

10. A method of mounting a swell pedal to an organ, said method comprising:

providing a mounting base having at least two different mounting members for accommodating two different types of mounting configuration; and

mounting said base to said organ.

11. The method of claim 10 wherein said providing comprises providing a mounting base having an inverted U-shaped channel and a pair of mounting ears extending oppositely outwardly from an open end of said channel.

12. A method of calibrating an expression pedal, said method comprising:

switching a control system to a calibration mode;

when in the calibration mode, moving said expression pedal from a full open position to its full closed position;

the control system recording the movement of said expression pedal from its full open position to its full closed position;

exiting the calibration mode; and

the control system recording values corresponding to said full open and full closed positions and calculating a proportional output signal.